

WHAT IS CLAIMED IS:

1. A storage system comprising:
 - a channel unit that transfers data sent from an upper-level system and transfers data to said upper-level system;
 - a plurality of cache units which are connected to said channel unit and in which data sent from said channel unit is stored;
 - a control unit that is connected to said cache units, and transfers or receives data to or from said cache units;
 - a disk device in which data sent from said control unit is stored; and
 - a plurality of paths connecting said channel unit to said plurality of cache units.
2. A storage system according to Claim 1, wherein said plurality of paths includes a first path that links a first cache unit included in said plurality of cache units to said channel unit, and a second path that links a second cache unit included in said plurality of cache units to said channel unit.
3. A storage system according to Claim 2, wherein said first path and said second path are independent of each other.
4. A storage system according to Claim 2, wherein said first path is dedicated to communication between said first cache unit and said channel unit.
5. A storage system according to Claim 4, wherein said second path is dedicated to communication between said second cache unit and said channel unit.
6. A storage system according to Claim 1, wherein among said plurality of paths, a path linking said channel unit and a predetermined cache unit included in said plurality of cache units is not the same as a path linking said channel unit and an other cache unit included in said plurality of cache units.

7. A storage system according to Claim 2, wherein said first path directly links said first cache unit to said channel unit.

8. A storage system according to Claim 7, wherein said second path directly links said second cache unit to said channel unit.

9. A storage system according to Claim 2, wherein said first path links said first cache unit to said channel unit on a point-to-point basis.

10. A storage system according to Claim 9, wherein said second path links said second cache unit to said channel unit on a point-to-point basis.

11. A storage system according to Claim 1, wherein said disk device includes a plurality of disk drives, and said control unit is connected to said plurality of disk drives.

12. A storage system according to Claim 1, wherein said plurality of paths are signal lines linking said channel unit and said plurality of cache units.

13. A storage system according to Claim 1, wherein said plurality of paths are used to communicate a reading request, which is issued from said upper-level system, from said channel unit to one of said plurality of cache units, and used to communicate data read from said plurality of cache units to said channel unit.

14. A storage system according to Claim 1, wherein said plurality of paths includes a number of paths equal to a number of cache units included in said plurality of cache units.

15. A storage system according to Claim 1, wherein said plurality of paths are used to communicate a writing request, which is issued from said upper-level system, and used to communicate data written from said plurality of channel units to one of said cache units.